

MGG 06 11 50 18

S3-78-SC final core locations

station	16B	32°	16.67' N	117° 14.89' W	slime on core catcher
	26A	32°	19.12'	117° 50.50'	mud in lines
	26B	32	18.63	117 49.85	
	26C	32	19.31	117 51.07	
	4P	32	13.62	117 45.90	
	5P	32	16.28	117 47.20	
	6P	32	20.99	117 50.90	
	7P	32	14.95	117 45.25	
	8P	32	11.80	117 44.54	
	9P	32	12.12	117 50.08	
Navy Fan ↑ ↓ Monterey Fan	10G	35°	51.99' N	123° 14.80' W	
	11G	35	56.89	122 47.59	
	12G	36	04.22	122 41.10	
	13G	36	14.07	122 37.71	
	14G	36	21.51	123 12.49	
	15G	36	23.53	123 20.52	
	16G	36	25.25	123 32.75	

P = piston core (includes gravity trigger)

G = gravity core

MGG 36113018

## USGS STATION LOG

SHIP / LEG S3-78-SC  
 LATITUDE 32° 16.740  
 LONGITUDE 117° 44.87  
 STATION NO. 1  
 LINE NO.

DAY/MONTH/YEAR  
 DATE 25/5/78  
 TYPE OF STORAGE (check one)  
☐ DRY ☐ COLD ☐ FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
1GB	1858	Slime on core catcher		

REMARKS: 1GA no recovery

# VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.				SEC.		
S	3	-	7	8	-	S	C				1	G		
										STATION#		OBSERVER		
												1	Clifton	

Samples	Graphic Representation	Smear Slide	Deformation
0			
10			
20			
30			
40			
50			
60			
70			
80			
90			
100			
110			
120			
130			
140			
150			

NEBCO

No core- 2 attempts failed to have penetration.

S3-78-SC ~16B is sample of sandy mud, rust, 3ct. scraped from outside of core catcher after 2nd attempt. Actual depth of core from sediment column unknown.

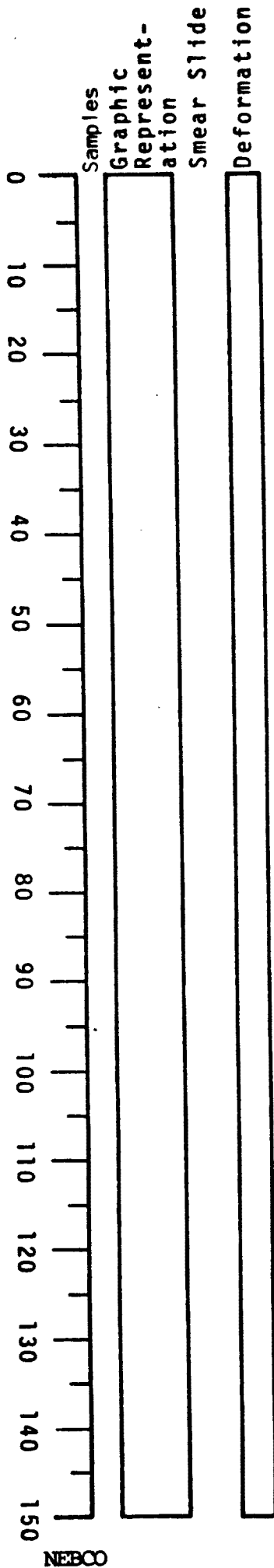
# USGS STATION LOG

SHIP / LEG S3-78-SC  
 LATITUDE 32° 19.93'  
 LONGITUDE 117° 51.79'  
 STATION NO. 2  
 LINE NO. \_\_\_\_\_

DAY/MONTH/YEAR  
 DATE 25/5/78  
 TYPE OF STORAGE (check one)  
☐ DRY ☐ COLD ☐ FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
2GA	1930	No sample-little mud in	core catcher	
2GB	1924	32 cm		
2GC	1925	1.4 m		

REMARKS:



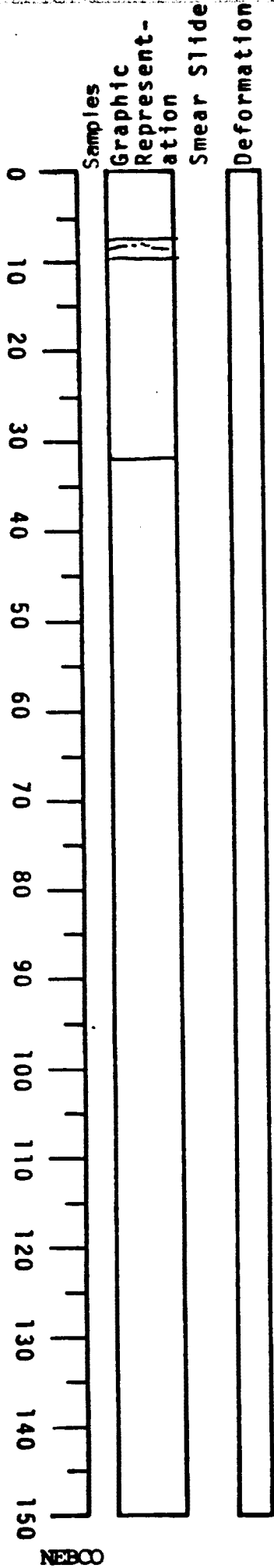
## VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.			SEC.
S	3	-	7	8	-	S C		2	G A	1
							STATION#			OBSERVER
									1	Dott

First drop: Only a handful mud in bottom of core liner-  
no real penetration. Saved about 10g for INGLE stained  
w/Bengal red

# VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.			SEC.			
S	3	-	7	8	S	C			2	G	B		
							STATION#			OBSERVER			
									2	Dott			



Grayish Olive (10Y4/2) mud slightly micaceous.

8-9½ cm (10Y4/2) micaceous silt.

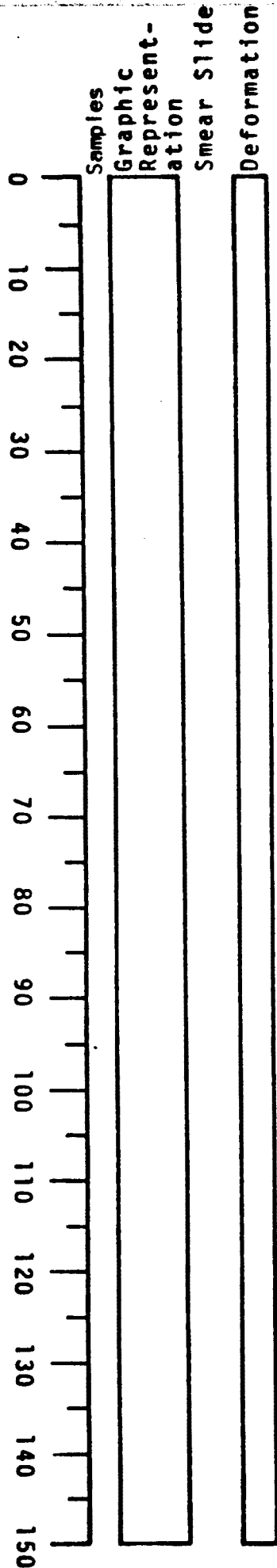
Light olive gray (5Y5/2) mud; slightly micaceous

More micaceous at base (possibly silty)

+catcher sample in small plastic vial

# VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.			SEC.	
S	3	-	7	8	-	S	C		2	G	C	
								STATION#			OBSERVER	
								2			Dott	



0-26 cm Olive gray mud; uniform (5Y3/2)

26-49 cm Dusky yellow green (5GY5/2) mud slightly darker laminae in top 1 cm

Grayish olive (10Y4/2) mud; upper 5 cm mottled-burrows? 49-111 cm

111-138½ cm Light olive gray top (5Y5/2 fine sand, clayey grading to medium gray (N5) medium sand, very micaceous at bottom with sharp basal contact; Bottom 5 cm incoherent dusky yellow green (5GY5/2) clay; sharp contacts olive gray (5Y3/2) silt grading to mud in top 0.5 cm

138.5 cm Bottom

Basal 44 cm x-rayed/+ catcher sample

# USGS STATION LOG

SHIP / LEG S3-78-SC  
 LATITUDE 32°11.9'  
 LONGITUDE 117°44.8  
 STATION NO. 3  
 LINE NO. S3-78-SC

DAY/MONTH/YEAR  
 DATE 25/5/78  
 TYPE OF STORAGE (check one)  
☐ DRY ☐ COLD ☐ FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
3GA	No recovery			

REMARKS:



# USGS STATION LOG

SHIP / LEG S3-78-SC  
 LATITUDE 33°12.77' / 32°31'  
 LONGITUDE 117°44.98' / 117°45.12'  
 STATION NO. 4  
 LINE NO. \_\_\_\_\_

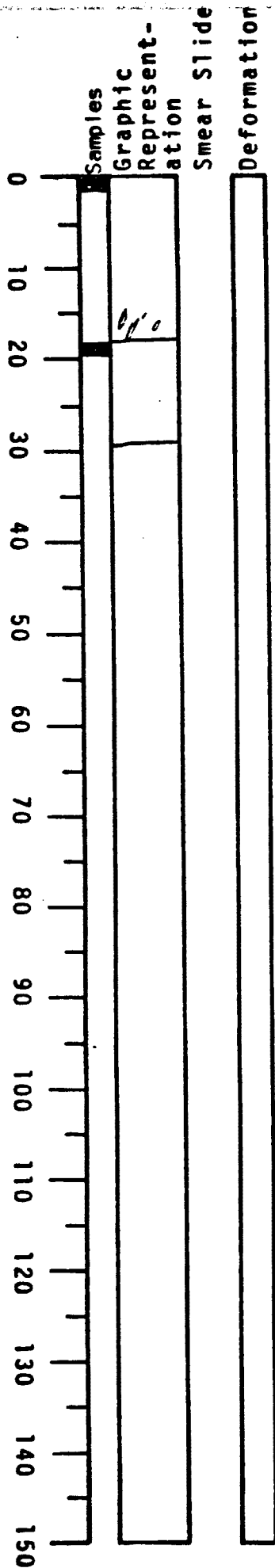
DAY/MONTH/YEAR  
 DATE 25/5/78  
 TYPE OF STORAGE (check one)  
☐ DRY ☐ COLD ☐ FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
4Pg	1859	29 cm		
4P		1m		

REMARKS:

# VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.			SEC.				
S	3	-	7	8	-	S	C			4	P	G		
STATION#										OBSERVER				
										4	Dott			



0-18 cm  
(5Y4/4) Mod. olive brown mud grading to slightly darker below top 2 cm.

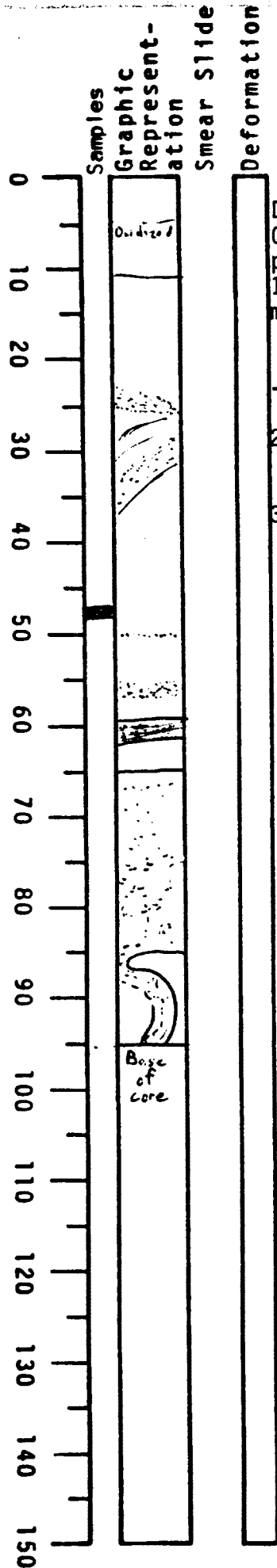
18-29 cm Dusky yellow green (5GY5/2) mud-prominent color change.

29 cm Bottom

This is surface sediment where piston core 4 was taken (4P had only sand

# VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.			SEC.
S	3	-	7	8	-	S C			4 P	1
							STATION#			OBSERVER
							4			Clifton



Dark  
0-11 cm Mud brn., structures 5Y3/2  
partly oxidized in middle 5Y4/4  
11 cm sharp color change mud, structurless 11-22 cm

-sand

22-36 cm sand and mud, contorted, apparently graded

36-49 cm mud, structurless 5Y5/2

50 cm sand, thin fine waterbed  
Mud structureless 5Y5/2  
sand medium green  
Mud darker 5Y 3.2 w/faint mottles 5Y5/2  
sand  
59-60 cm  
60-65 cm Mud structureless 5Y5/2  
65 cm Sharp contact

65-85 cm Structureless, sand in graded md.green-fn. green  
at top, micaceous, plant frags at top 5Y4/1

85-95 cm Sand and mud contorted

+ catcher sample  
No x-rays

# USGS STATION LOG

SHIP / LEG S3-78-SC  
LATITUDE 32°14.944  
LONGITUDE 117°47.719  
STATION NO. 5  
LINE NO. \_\_\_\_\_

DAY/MONTH/YEAR  
DATE 25/5/78  
TYPE OF STORAGE (check one)  
☐ DRY ☐ COLD ☐ FROZEN

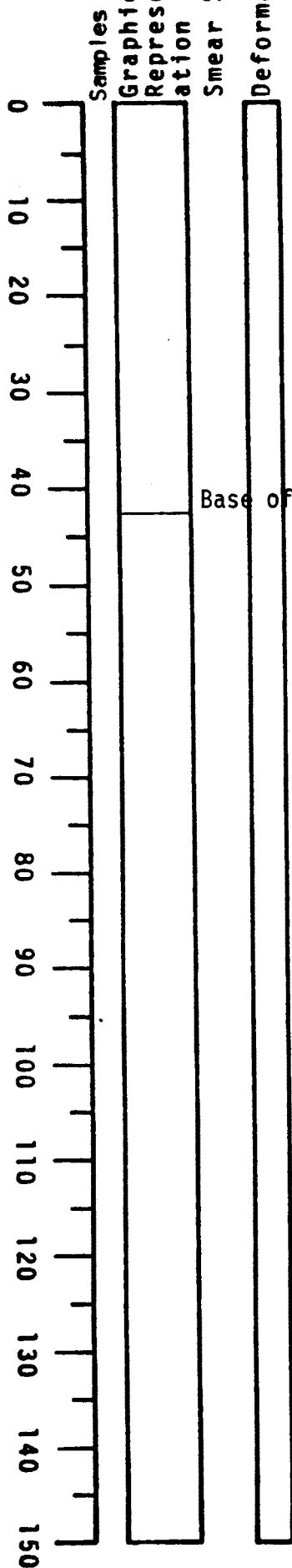
SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
5PA	1889	3.2 m	43 inches	in gravity trigger

REMARKS:

# VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.				SEC.	
S	3	-	7	8	-	S C			5	P	G	1

STATION#				OBSERVER
				Clifton



-oxidized 5Y4/4  
Mud, structureless 5Y3/2

-obscure  
v. fine sand  
Shapr

Mud, structureless 5Y3/2

-gradational  
Mud, 5Y3/2, w/lighter (5Y5/2) mottles  
Base of core 42 cm

x-rayed in toto

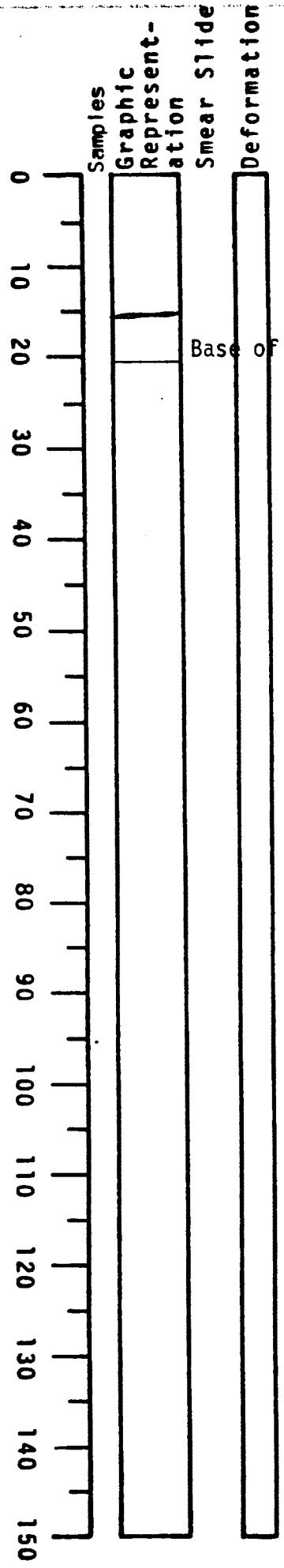
# VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.				SEC.		
S	3	-	7	8	-	S C				5	P		1

STATION#				OBSERVER	
			5	Clifton	

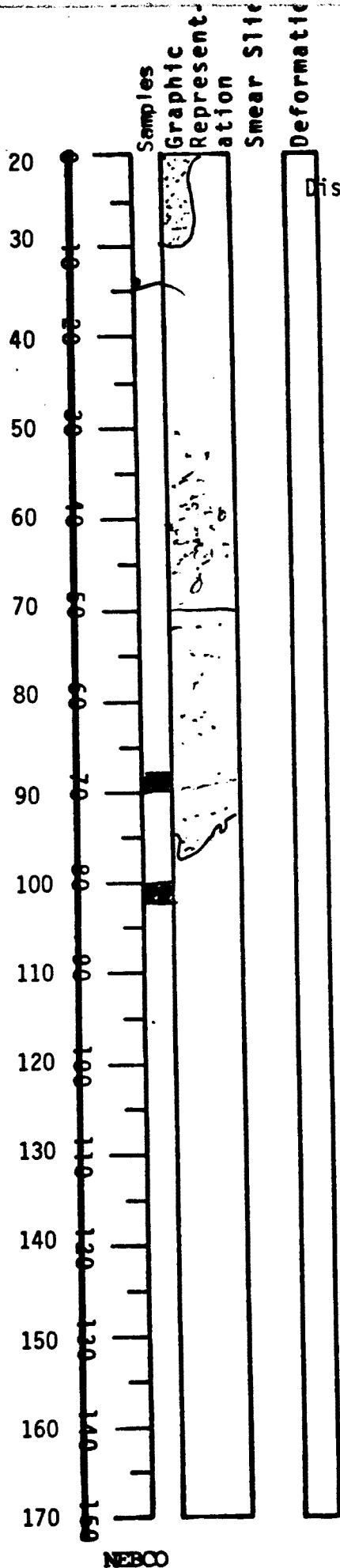
0-16 cm Homogenized mud 5Y4/4

Gradational  
Mud, 5Y5/2 with thin sand interbedded, (5Y4/1) fine grain.



# VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.			SEC.
S	3	-	7	8	-	S C			5 P	2
							STATION#		OBSERVER	
									Clifton	



Disturbed sand layer at top, fn. gr.

Mud structureless 5Y5/2

gradational

Mud darker than above with 5Y3/2

Lighter colored mottle (5Y5/2)

fairly sharp

Sand, graded contorted 5Y4/1 mixed w/more olive green beds

Interbedded

md. gr.

fn. gr.

-Sharp

72-119 cm Mud structurless 5Y5/2

-gradation

Mud, dkr. than above, mottled 5Y3/2, "burrow fills" 5Y5/2

fairly sharp

sand, md. grained, no distinct grading 5Y4/1

-fairly sharp

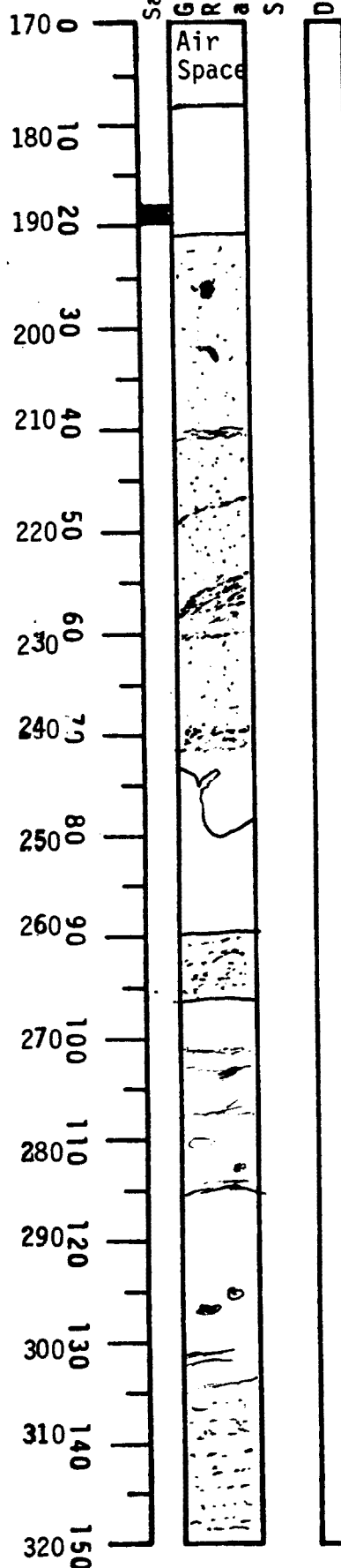
Mud, few faint mud filled burrow structures(5Y3/2)  
(lighter colored mottles)

5Y5/2

x-rayed in toto in 40 cm segments

## VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.				SEC.		
S	3	-	7	8	-	S C				5	P		3
							STATION#				OBSERVER		
											5	Clifton	



8-21 cm Mud, structureless

21-43 cm Sand, local, faint layers defined by thin cone organic detritus micaceous 5Y3/2

44 cm cs. and md. sand, micaceous, dk. organic detritus 5Y2/1

45-50 cm Well std. md. fn. gr. snd. 5Y3/2

50-57 cm Sand graded, cs. at base, forams, micaceous throughout, wood frags at base, also probable mud clasts.

59-70 cm sand well std, md. gr. 5Y3/2

70-71 cm Cs., micaceous, wood frags.-lg. clasts + 2 cm in diameter in archive split.

71-77 cm Sand well std, fn. gr. 5Y4/1

77 cm Sharp

77-90 cm Mud, structureless 5Y5/2

90 cm sharp  
90-96 cm sand md. gr.; sand grading up into mud.

96-101 cm mud, structureless

101-102 cm Sand, thin sand filled burrows at base 5Y5/2

102-113 Mud mottled, sand filled burrows

113-116 cm Thin sandy layers in mud, possibly graded

116-132 cm Mud, few mottles, thin sandy lams. near base 5Y5/2

133 cm Gradational

133-150 cm Sand, graded, md. gravel at base of core

x-rayed in toto in 40 cm segments  
Core catcher in reefer box-sand



# USGS STATION LOG

SHIP / LEG S3-78-SC  
LATITUDE 32°20.86'  
LONGITUDE 117°50.88  
STATION NO. 6  
LINE NO. S3-78-SC

DAY/MONTH/YEAR  
DATE 25/5/78  
TYPE OF STORAGE (check one)  
☐ DRY ☐ COLD ☐ FROZEN

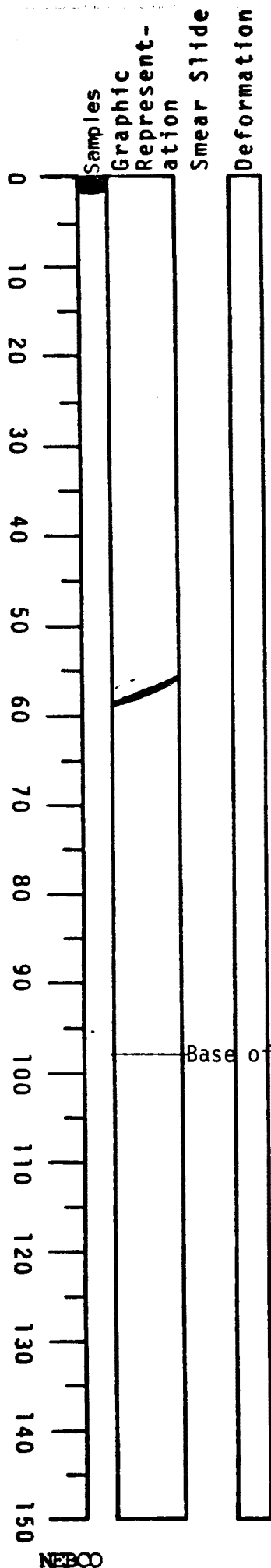
SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
6PA	1929	5M		

## REMARKS:

Gravity trigger core 1m

# VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.			SEC.	
S	3	-	7	8	S	C		6	P	G	
							STATION#			OBSERVER	
										Clifton	



0-55 cm Mud structureless silty 5Y3/2

-Sharp  
-Laminated mud. Light mud over thin (2-3mm) dark organic rich mud layer.

58-98 cm Mud, structureless 5Y5/2

+ core catcher in pint refer box

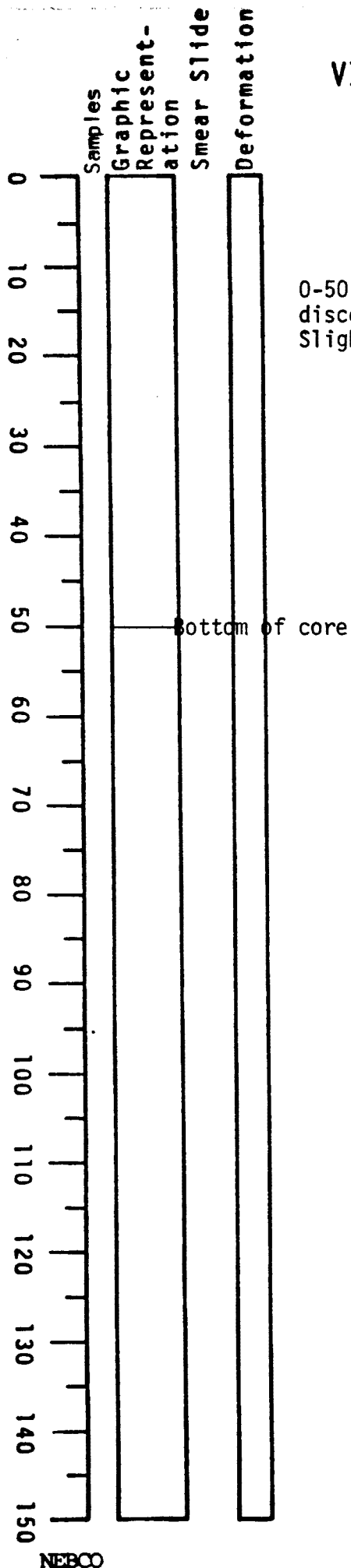
No x-rays

# VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.			SEC.
S	3	-	7	8	-	S C			6	P 1
							STATION#			OBSERVER
									6	Clifton

0-50 cm Mud structureless, no  
discernible textural color change  
Slightly micaceous-5Y3/2

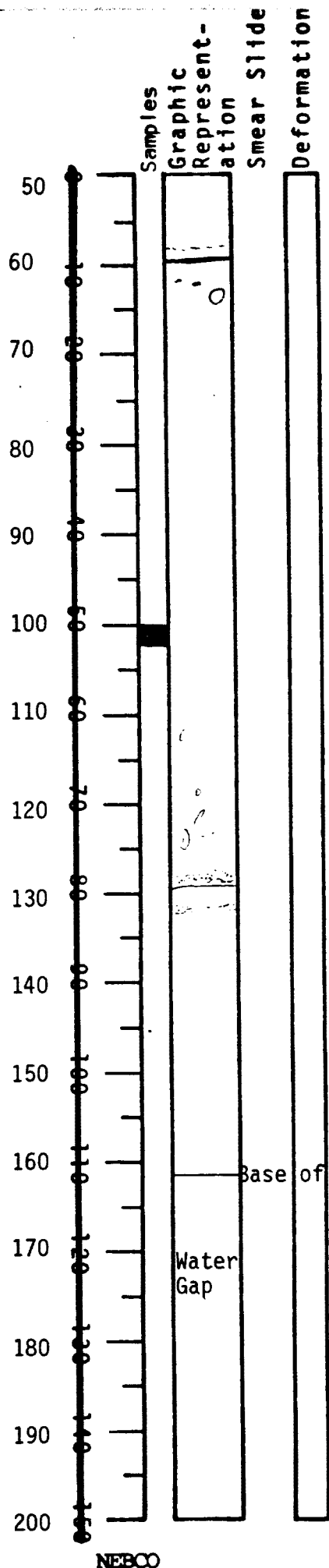
No SPLS on this section  
No x-ray



# VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.			SEC.
S	3	-	7	8	-	S C			6	P 2

STATION#	OBSERVER
	Clifton



50-59 cm Mud-silty, few very tiny open burrows 5Y3/2

57 cm sharp--well defined org. mud layer under mud w/ organic frags. (thin mud 5Y5/2)

65 cm gradational

65-105 cm Mud structureless 5Y5/2

105 cm Gradational

105-130 cm Mud, darker 5Y3/2

129 cm Sand md. gr.

131 cm Thin sand layer?

131-162 cm Mud structureless 5Y3/2

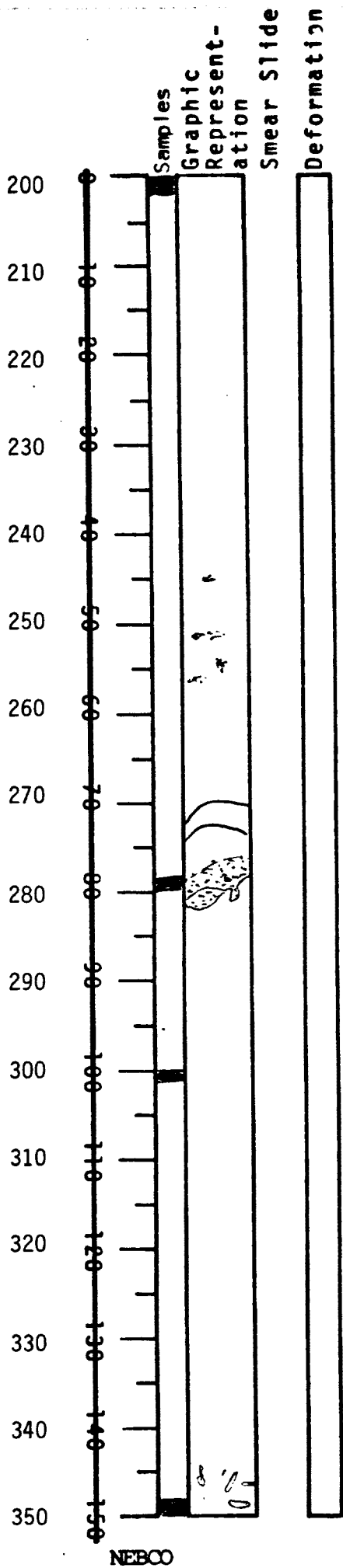
Faint dark mottling near base

Base of core

Water Gap

# VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.			SEC.
S	3	-	7	8	-	S	C		6	P	3
								STATION#		OBSERVER	
								6		Clifton	



200-273 cm Mud structurless 5Y3/2 except for small burrow /cm across filled w/fine sand

267 cm gradational

269-275 cm Mud with sand lam.

275-281 cm Sand, fn. gr. 5Y4/1

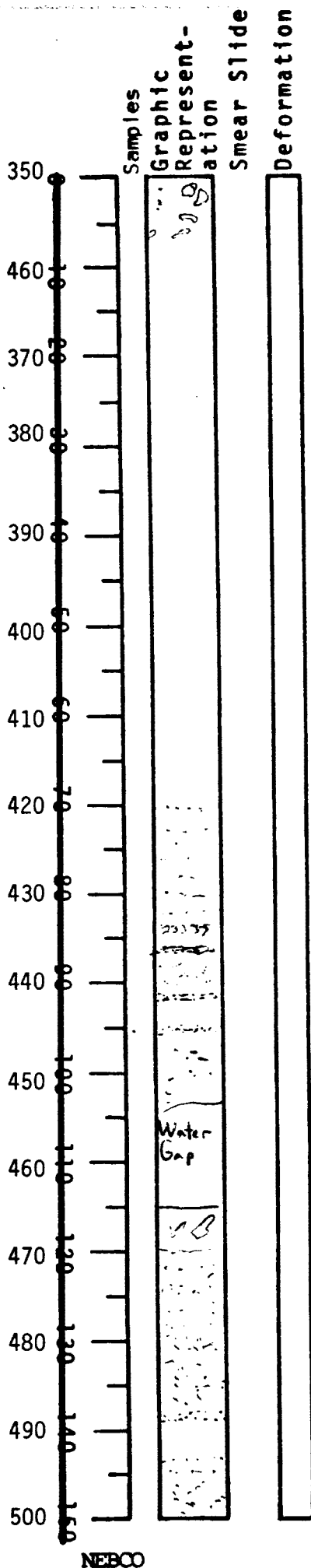
281-340 cm Mud, structureless except for faint dark (organic rich?) splotcles scattered lg forams 5Y5/2

341 cm gradational

341-350 cm Mud dark 5Y3/2 w/mottles of lighter mud 5Y5/2

# VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.			SEC.
S	3	-	7	8	-	S C			6 P	4
							STATION#			OBSERVER
										Clifton



350-423 cm Mud, 5Y3/2 structureless except for mottles (5Y5/2) top 10 cm

424 cm Gradation; v. fine sand

424-444 cm Sand, 5Y3/2, graded 2/thin sand interlams (shown) that seem somewhat better sorted and are distinct gray n/5

444 cm slightly csr

444-453 cm 5Y3/2

453-464 cm water gap

464-473 cm mixed mud and sand. some 5Y3/2 mud

473-487 cm sand, md. fn. gr.-may include 2 or 3 individual graded 5Y3/2

487-491 cm fairly sharp; sand v. fine graded 5Y4/1

491 cm Gradation

491-500 cm Sand graded md. gr.--v. fine grained 5Y3/2

+Core catcher in pint box

# USGS STATION LOG

SHIP / LEG S3-78-SC  
 LATITUDE 32°14.93  
 LONGITUDE 117°45.24  
 STATION NO. 7  
 LINE NO.

DAY/MONTH/YEAR  
 DATE 26/5/78  
 TYPE OF STORAGE (check one)  
☐ DRY ☐ COLD ☐ FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
7PA	1851	1.1		

REMARKS: Gravity trigger core 71 cm

## VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.				SEC.		
S	3	-	7	8	-	S	C			7	P	G		1
STATION#										OBSERVER				
								7					Dott	

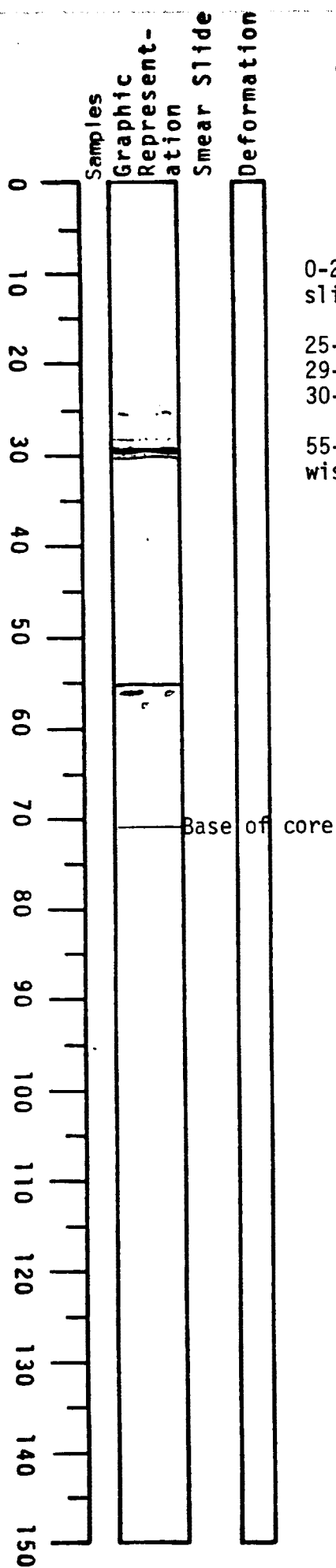
0-25 cm 5Y3/2 mud, structureless  
slightly silty toward base.

25-29 cm v. fn. sand; micaceous (1cm)

29-30 cm 5Y5/2 mud, structureless

30-55 cm " "

55-71 cm 5GY3/2 mud, sl. mottled in upper 2-3 cm other-  
wise structureless



NEBCO

NOTE-Archive & working cores are in same D tube

(Core catcher in refer box)



# VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.			SEC.
S	3	-	7	8	-	S C			7 P	1

STATION#	OBSERVER
7	Dott

0-14 cm graded fine to v. sd. at top w/sand coarser slightly coarser mica and plant

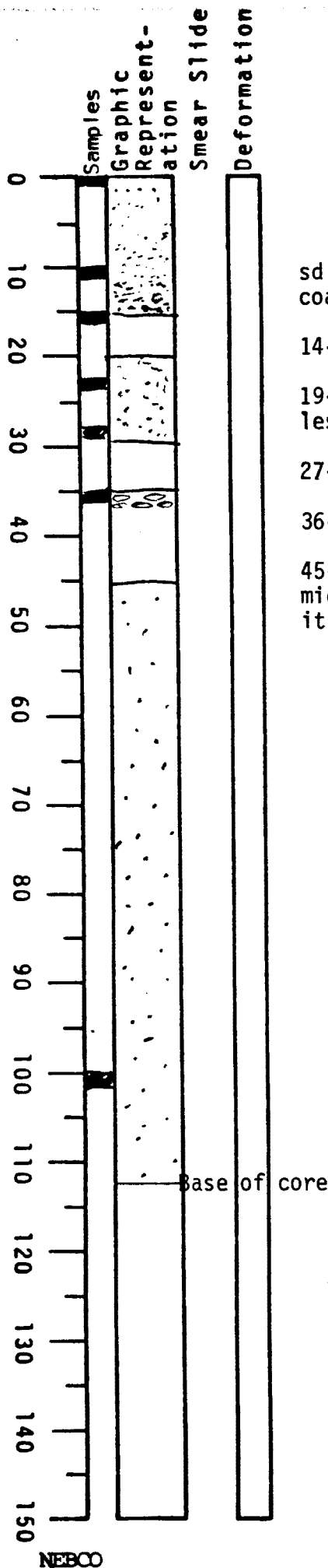
14-19 cm 5Y3/2 mud, structureless

19-27 cm 5Y4/1 fine sd. w/lots of coarser mica; structureless (base disturbed by coring)

27-36 cm 5Y5/2 mud, structureless

36-45 cm 5GY3/2 mud, mottled (burrows?) in upper 2cm

45-112 cm 5Y4/1 sd. fn.med. border, structureless, very micaceous. Post coring piping of H<sub>2</sub>O maybe homogenized it somewhat.



Note: Top of core was very soupy; grading in top sand probably regulated from post-coring settling.

Core catcher in pint box

# USGS STATION LOG

SHIP / LEG S8-78-SC

LATITUDE 32°11.65'

LONGITUDE 117°44.64'

STATION NO. 8

LINE NO.

DAY/MONTH/YEAR

DATE 26/5/78

TYPE OF STORAGE (check one)

☐

DRY

☐

COLD

☐

FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
8PA	1872	3.75		

REMARKS: Gravity trigger 31 cm

# VISUAL CORE DESCRIPTION

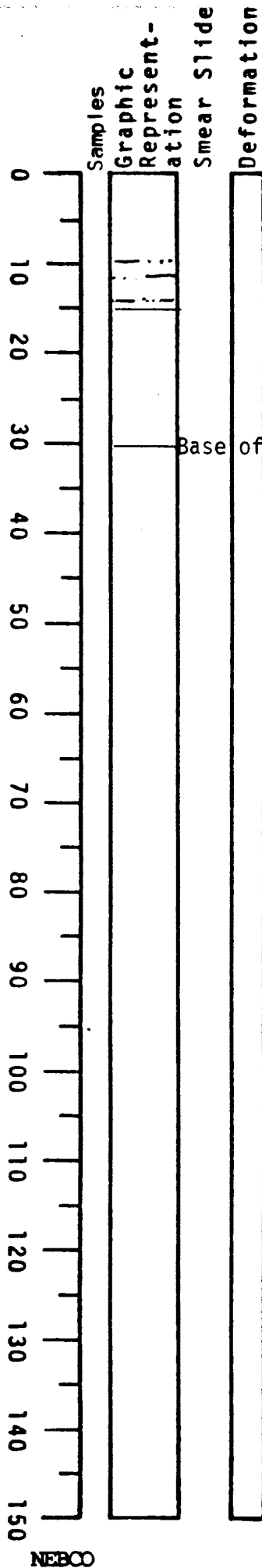
LOCATOR								SAMPLE NO.			SEC			
S	3	-	7	8	-	S	C		8	P	G		1	
								STATION#			OBSERVER			
											8			Dott

0-15 cm 5GY3/2 mud w/considerable silt in lower half

15-31 cm 5GY5/2 muddy silt; structureless

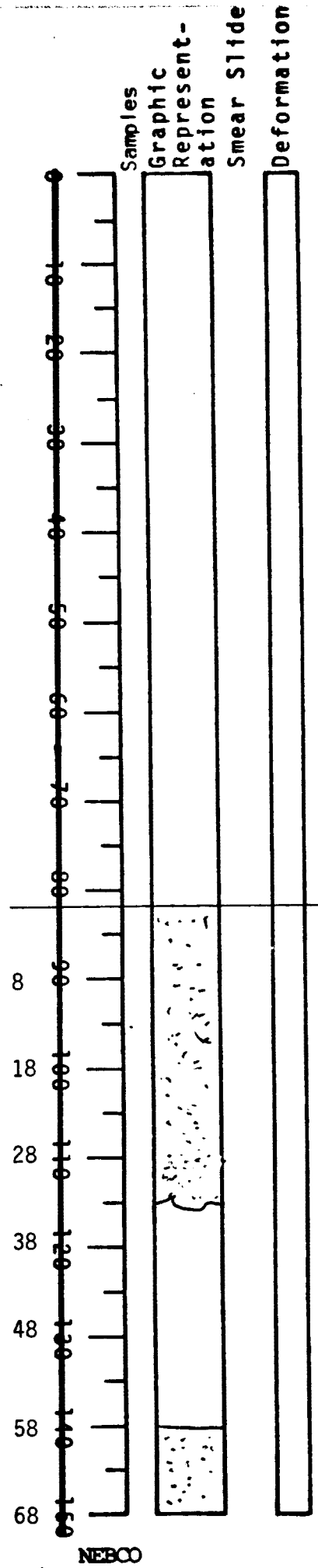
Base of core

Core catcher in small box



VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.			SEC.	
S	3	-	7	8	-	S	C			8	P	1
								STATION#			OBSERVER	
										8	Dott	

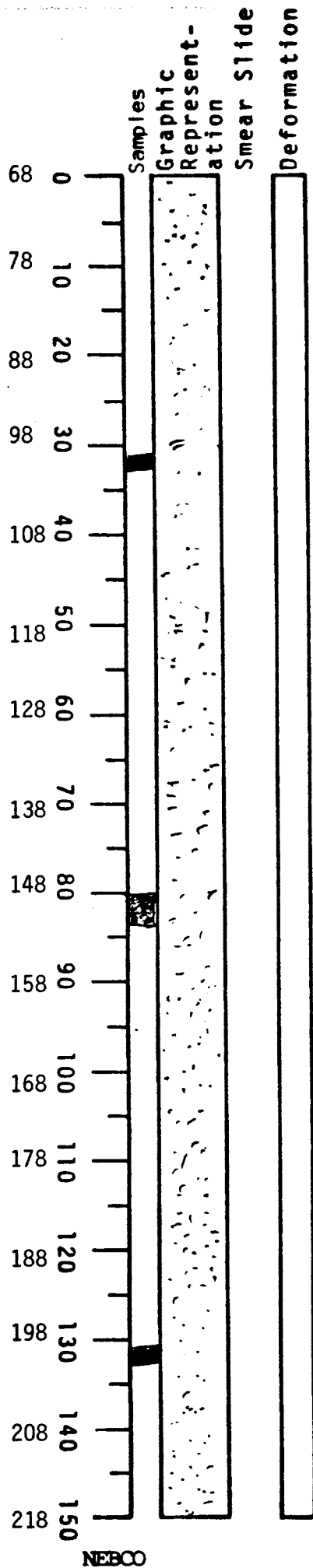


Top-0

0-33 cm 5Y4/1 med. sand w/ lots biotite structureless (was liquified during extraction)

33-58 cm 5Y5/2 mud, structureless

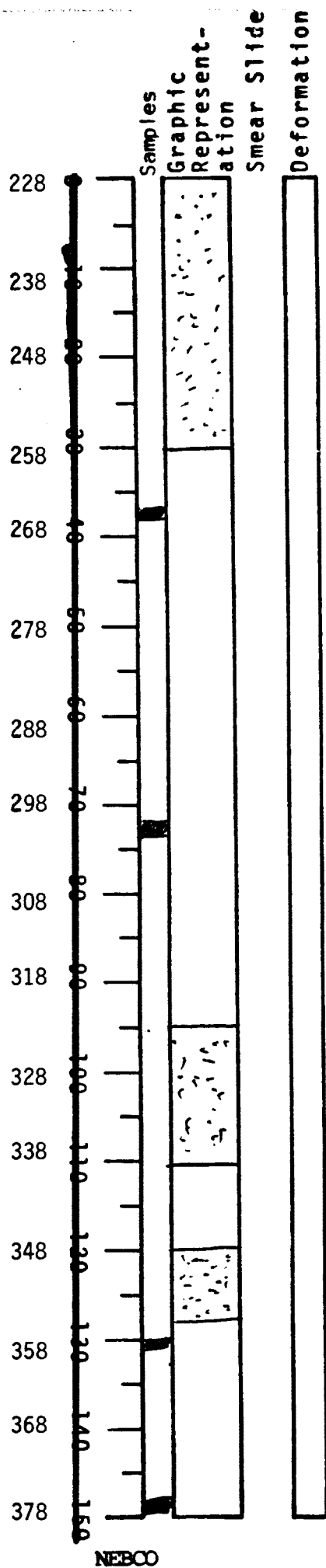
58-68 cm fine-med. sand boundary



# VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.				SEC.		
S	3	-	7	8	-	S	C				8	P		2
								STATION#				OBSERVER		
												Dott		

5y4/1 fine med. snad very micaceous. Some plant detritus



# VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.			SEC.
S	3	-	7	8	-	S C			8	P 3
							STATION#			OBSERVER
									8	Dott

228-258 cm Med. sand continued

258-323 cm 5Y5/2 mud (badly disturbed by piping sand during coring)

323-338 cm 5Y4/1 med. sand-very micaceous

338-348 cm 5Y5/2 mud disturbed

5Y4/1 med. sand 348-358 cm

358-378 cm 5Y5/2 mud-structurless

(one catcher in pint box)

# USGS STATION LOG

SHIP / LEG S3-78-SC  
 LATITUDE 32°12.18  
 LONGITUDE 117°50.08'  
 STATION NO. 9  
 LINE NO. \_\_\_\_\_

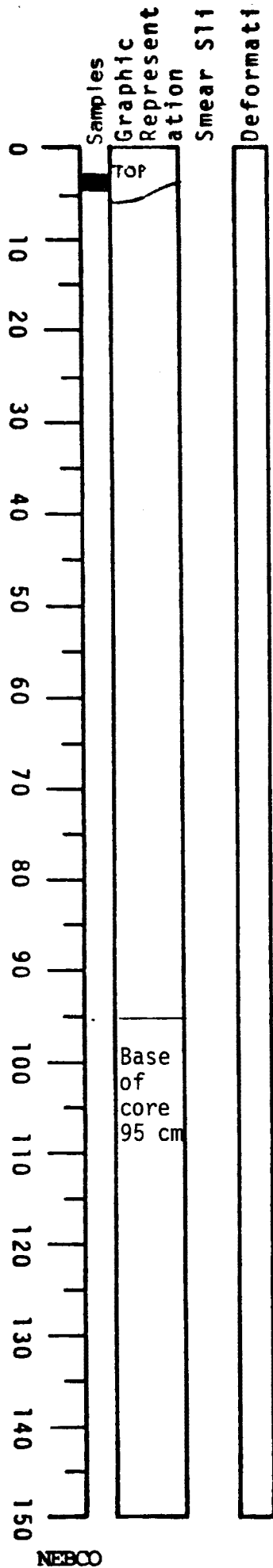
DAY/MONTH/YEAR  
 DATE 6/25/78  
 TYPE OF STORAGE (check one)  
☐ DRY    ☐ COLD    ☐ FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
9PA	1924	5.7 m		

REMARKS: Gravity trigger core 95 cm

# VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.			SEC.			
S	3	-	7	8	-	S	C			9	P	G		1
										STATION#		OBSERVER		
												Clifton		

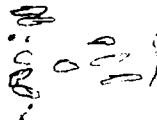


2-60 cm Mud, structureless 5Y5/2

Description of mottles in this mud.  
This core and others very similar.

1.circular (generally slightly elliptical long axis horizontal w/cm diam.

2. smaller circles of elongate structures 2mm diameter. Often elongate ones occur in clusters



Most sub horizontal but a few are subvertical

Gradation

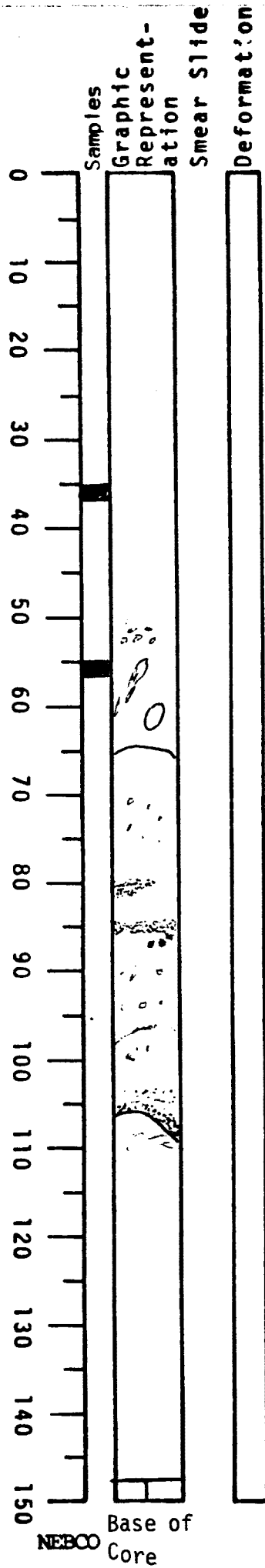
Mud, 5Y3/2, mottled spots 5Y5/2

-Sharp  
Mud structureless 5Y3/2  
-gradational  
Mud structureless 5Y5/2  
Possible sand mottles of 5Y3/2



# VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.				SEC.	
S	3	-	7	8	-	S	C				9	P	1
										STATION#		OBSERVER	
												Clifton	

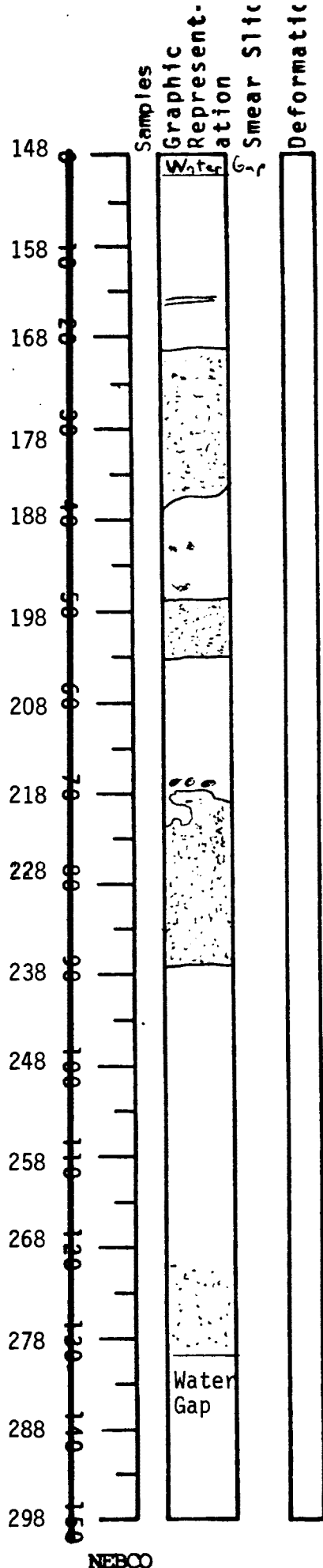


1-43 cm Mud structureless (5Y5/2)  
 43 cm gradational  
 43-66 cm Mud (5Y3/2) 3/ lighter (5Y5/2)

-Sharp  
 Mud structureless (5Y3/2)  
 Gradational  
 Mud (5Y3/2) w/lighter mottles (5Y5/2)  
 gradation  
 78 cm Mud (5Y5/2)  
 79 cm Sand fn. gr. discontinuous  
 84 cm Sand fn. gr., graded  
 86 cm Mud (5Y3/2) w/ sand filled burrows at top  
 88 cm Gradation  
 89-94 cm Mud (5Y3/2) w/(5Y5/2) mottles  
 95 cm Sand 3mm thick fn. gr. not graded(?)  
 95-97 cm Lighter at top almost (5Y5/2)  
 97-107 cm Mud (5Y3/2) w/faint (5Y5/2) mottles upper part  
 organic detritus scattered in lower part.  
 97-110 cm Sand, 1 cm thick, fn. gr. graded  
 110 cm Sharp  
 111 cm Thin mottled (5Y5/2) w/(5Y3/2)  
 111-140 cm Mud structureless (10Y4/2)

-gradation  
 141-148 cm Silty mud (5Y3/2)

# VISUAL CORE DESCRIPTION



LOCATOR							SAMPLE NO.		SEC.
S	3	-	7	8	-	S C		9 P	2
148-150 cm Water gap							STATION#		OBSERVER
150-165 cm Mud (10Y4/2) faint narrow elongate burrow mottles.									Clifton

148-150 cm Water gap

150-165 cm Mud (10Y4/2) faint narrow elongate burrow mottles.

165-170 cm Mud thin 5Y4/4, Mud (5Y3/2)

171 cm Gradation

171-185 Sand. v. fn. gr.-silty structureless (5GY4/1) No evident textural grading although top is less well defined than base.

185-196 cm Mud (10Y4/2) Scattered carbonaceous material few scattered scattered sand filled burrows.

196-203 cm Sand liquified during development of water gap at top (fn. gr.)

203-217 cm Mod. graded light (10Y4/2) slightly mottled but no distinct burrow. Abundance of lg forams at base  
217-218 cm Irregular, locally sharp

218-238 cm Sand fn. gravel, graded

238 cm Sharp contact

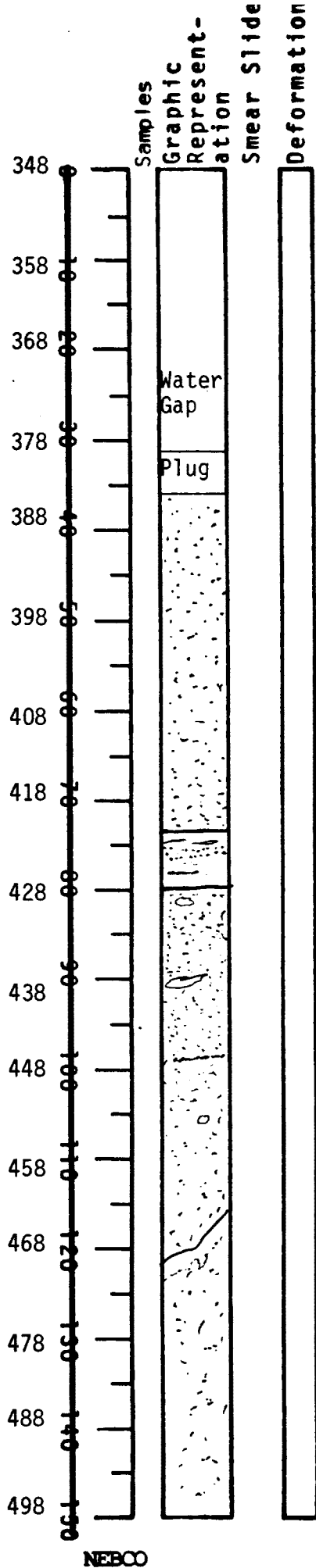
239-270 cm Mud structureless (except for v. faint mottled appearance. Shreds of organic detritus. Mica scattered throughout

270-271 cm Gradation

271-280 cm Muddy sand, abundant carbonaceous detritus, mica faint sand mud mottling

# VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.			SEC.
S	3	-	7	8	-	S C			9 P	3
							STATION#			OBSERVER
										Clifton



Top of styrofoam plug lines up w/ black marks on liner edge.

384-423 cm Sand, graded md. gr. to fn. gr. v. micaceous, abundant plant detritus esp. rear top.

(5Y4/1)

423 cm Sharp contact

423-428 cm Mud + sand layers, lentic concentration of plant debris.

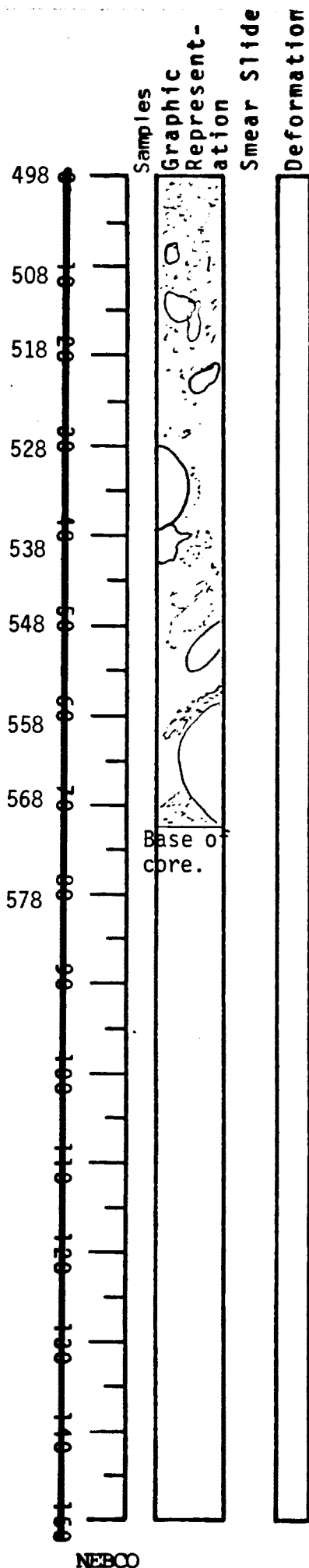
428-467 cm Sand graded, med. cs. gravel to fine gravel. Hint of stratification and mud clasts, micaceous, especial in lower ½ (5Y4/1)

467 cm Sharp contact

467-470 cm Mud silty (5Y5/2)

470 cm Fairly sharp, irregular

470-498 cm Sand, graded md. gravel to fn. gr. v. micaceous esp. new bottom (5Y4/1)



# USGS STATION LOG

SHIP / LEG S3-78-SC  
 LATITUDE 35°52.03'  
 LONGITUDE 123°14.83'  
 STATION NO. 10  
 LINE NO. \_\_\_\_\_

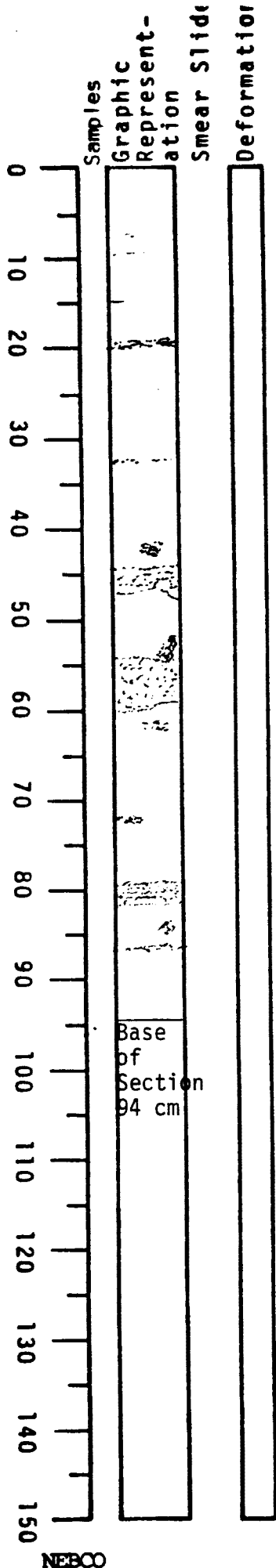
DAY/MONTH/YEAR  
 DATE 30/5/78  
 TYPE OF STORAGE (check one)  
☐ DRY ☐ COLD ☐ FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
10GA	3684	2.4 m		

REMARKS:

# VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.			SEC.
S	3	-	7	8	-	S C		1	0	G 1
							STATION#			OBSERVER



0-20 cm Mud faintly layered, but almost certainly homogenous in large part in core processing

20 cm Sand

25 cm Mud structureless (10Y4/2)

32 cm Sand-discontinuous

37 cm Mud structureless (10Y4/2 except for sand filled burrow in lower part.

39-41 cm Sand, fine gravel

50 cm Gradation

52 cm Mud 10Y4/2

52-60 cm Sand, fine gravel, w/v. abundant Globigerina etc + possible glauconite, wisps of mud layers throughout. No evidence of grading.

60-80 cm Mud dark wisps; Sand ( burrow fill or discontinuous bed.)

80-82 cm Sand, fine gravel, no evident grading faint mud layers near base- burrows off bottom & top. Both top & bottom. Fairly sharp.

82-86 cm Mud (10Y4/2)-dark wisps

87 cm V. thin dark wisps (10Y4/2)

Mud color changes are much more subtle in this section than in one below. Still can detect light to dark change in a few mud below.

Mottling not as evident-in fact it is easier to imagine than to see.

# VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.				SEC.			
S	3	-	7	8	-	S	C			1	0	G		2

STATION#				OBSERVER	
		1	0	Clifton	

Gradation at: 96, 106, 119, 129, 137, 145, 151, 161, 165, 167, 176, 187, 191, 198, 208, 214, 219, 224, 230 cm.

## STRONG PENETRATION

A.- Mud, structureless, slightly darker than 5GY6/1 but not as dark as 5GY4/1, wisps of dark material. (Plant remains)? Typically gradational. A at following intervals: 94, 104, 114, 127, 136, 155, 166, 169, 177, 180, 196, 207, 213, 217, 222, 230 cm.

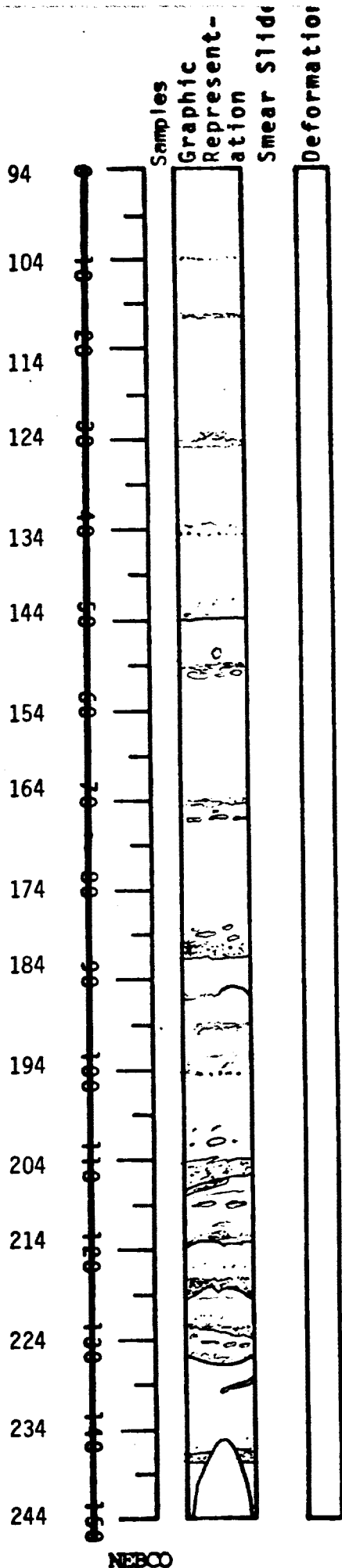
B.- Mud, mottled w/ elongate & ellipitical blebs of mud (Probable burrows), some dark wisps -more or less gradational- Typically gradational. B at following intervals: 100, 108, 121, 133, 139, 145, 148, 167, 178, 184, 187, 193, 200, 209, 214, 220, 225, 234 cm.

C.- Sand, fine to very fine gravel. Sharp bases; some wisps of mud (B but no burrows-too thin), some almost forming flasers (alternating mud-small ripple laminations). Faint textural grading at best- but bases are more sharply defined than tops. Tops are irregular in sense of having some sand-mud alternating but are fairly sharp. Some sand are discontinuous v. thin layers. C at following intervals: 108, 109, 124, 135, 143, 170, 185, 189, 204, 212, 221, 227, 237 cm.

147-149 cm Well defined circular burrow? 1 cm across lined w/green cementic structured hollow 1mm center.

-Sharp Contact-

Plus core catcher in small vial.



# USGS STATION LOG

SHIP / LEG S3-78-SC

LATITUDE 35°56.35'

LONGITUDE 122°47.85'

STATION NO. 11

LINE NO. \_\_\_\_\_

DAY/MONTH/YEAR

DATE 27/6/78

TYPE OF STORAGE (check one)

☐

DRY

☐

COLD

☐

FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
11GA	3584	1.8 m		

REMARKS:



# VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.			SEC.
S	3	-	7	8	-	S C		1	1	G 1

STATION#		OBSERVER	
		1 1	Dott

0-11 cm 5y4/4 mud, structurless

11-34 cm Mud, very subtly mottled. Some scattered mica.

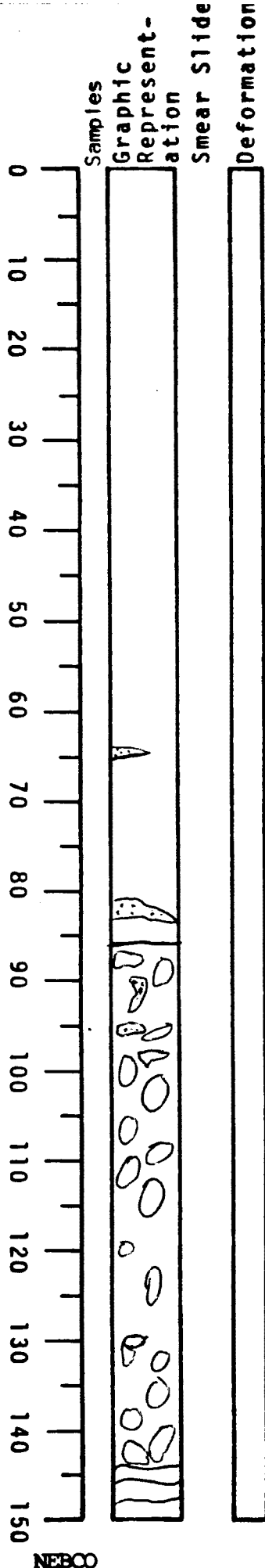
34-67 cm Muddy silt w/considerable mica. Structureless except for vague color mottling.

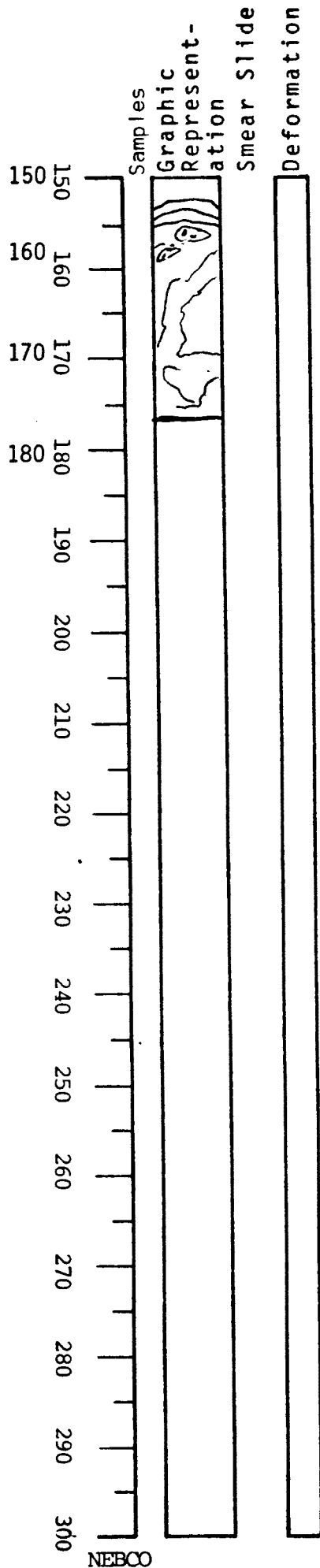
67-87 cm Fine sand lenses (tYR4/1) in mud (5GY5/2)

87-145 cm Mud pebbles in mud matrix (5GY5/2) Several sa clots also small black spots. 4 streaks=orgon

145-150 cm 5Y4/4 faintly wavy 1 cm mud.

No catcher





## VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
S	3	-	7	8	-	S	C			1	1	G		2
5Y4/4 wavy laminated								STATION#				OBSERVER		
												Dott		

150-155 cm 5Y4/4 wavy laminated (deformed)

155 Mud

155-177 cm Same but less laminated; v. fn. sand clots at top. Completely churned-(revealed by subtle coloration streaking & uplifting).

X-rayed entire core

# USGS STATION LOG

SHIP / LEG S3-78-SC  
 LATITUDE 36°04.07'  
 LONGITUDE 123°41.24'  
 STATION NO. 12  
 LINE NO. \_\_\_\_\_

DAY/MONTH/YEAR

DATE \_\_\_\_\_

TYPE OF STORAGE (check one)

☐

DRY

☐

COLD

☐

FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
12GA	3445	2.3 m		

REMARKS:

# VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.				SEC.			
S	3	-	7	8	-	S	C			1	2	G		1

STATION# OBSERVER

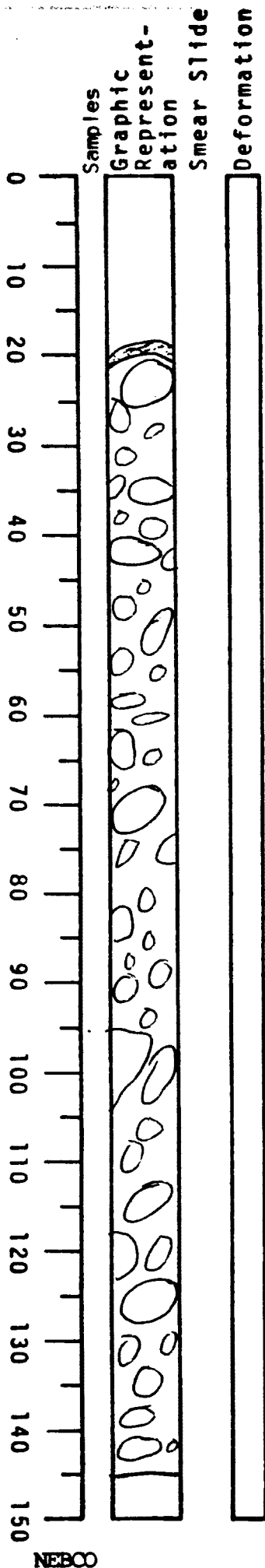
1 2 Dott

0-19 cm 5Y4/4 mud

19-20 cm 5YR4/1 Fine sand laminae

20-145 cm Very sharp base over mud-clasts. Clasts all rounded; vary from pbl. to cbl sizes; unsorted; clasts very clear.

145-150 cm 5Y4/4 mud- homogeneous-may be a beg mud clast.

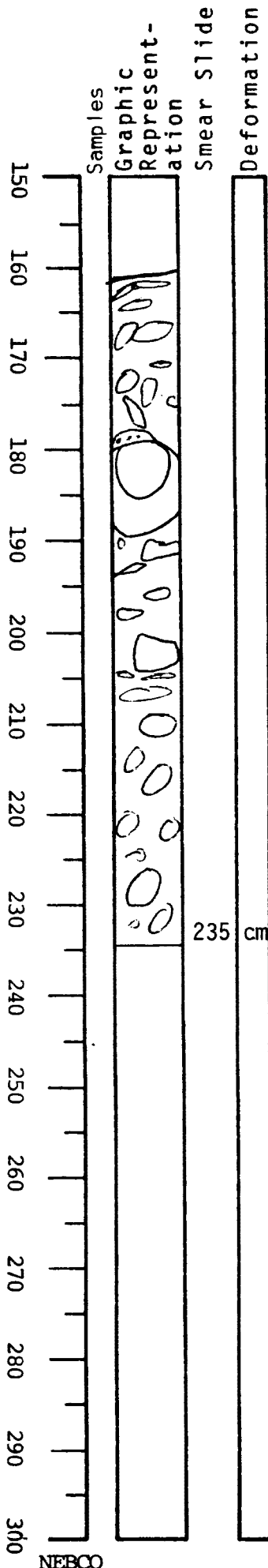


# VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.				SEC.		
S	3	-	7	8	-	S	C			1	2	G		2
mud (continuous 150-								STATION#				OBSERVER		
										1	2	Dott		

Homogeneous mud (continuous 150-160 cm continued from 1st sheet.

160-235 cm Mud-clasts eg. as above but with few sand clots (small) Clasts vary in color from 5Y4/4 to 5Y5/2



235 cm Bottom

Except for top 20 cm, this core has very high degree of cohesion.

Also very strong H<sub>2</sub>S

X-rayed entire core (3 shots)

All core catcher in small vial

# USGS STATION LOG

SHIP / LEG S3-78-SC  
 LATITUDE 36°14.07  
 LONGITUDE 122°37.71  
 STATION NO. <sup>13</sup>   
 LINE NO.

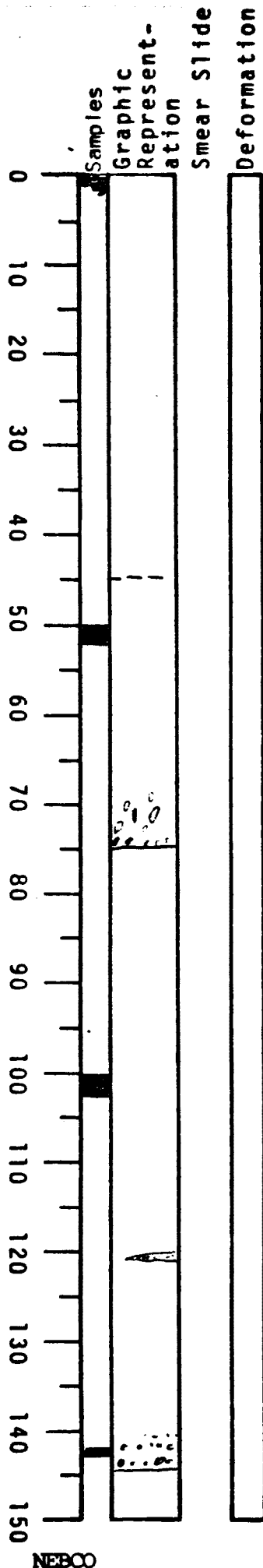
DAY/MONTH/YEAR  
 DATE 31/5/78  
 TYPE OF STORAGE (check one)  
☐ DRY ☐ COLD ☐ FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
13GA	3269	3.1		

REMARKS:

# VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.			SEC.	
S	3	-	7	8	-	S	C		1	3	G	1
								STATION#		OBSERVER		
									1	3	Dott	



5Y4/4 gelatinous mud 0-45 cm

45 cm Gradational boundary

50-68 cm 5Y4/4 mor compact mud; fine black streaks (probably organic?)

68-73 cm Burrow (?) mottling

73-75 cm 1 cm fn. sand, vy. micaceous, angular

75-140 cm 5Y4/4 mud-structureless

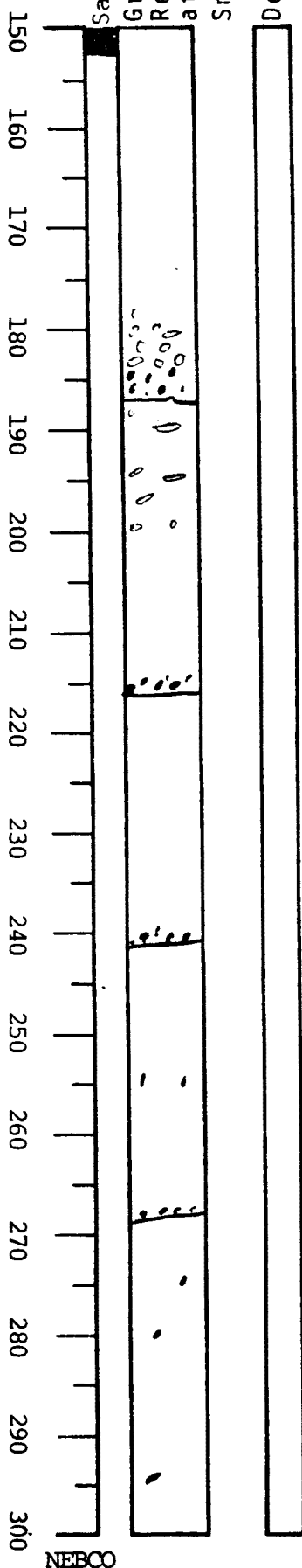
120 cm V. fn. sand streak (1 cm thick)

141-143 cm 2 cm graded fine to v. fn. sand; very micaceous

143-150 cm Mud Structureless.

# VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
S	3	-	7	8	-	S	C			1	3	G		2
GY3/2 mud sturctures arrow(?)								STATION#				OBSERVER		
										1	3	Dott		



150-186 cm 5GY3/2 mud structures except for burrow(?)

Mottles 5GY5/2 at base

166 cm White spots w/ v/ fn. white needle crystals authigenic-but what? burrow linings?

1 cm gray fine sand

5GY3/2 mud

0/5 cm gray fn. sd.

Mud as above

0.5 cm fn. sd.

Mud as above

0.5 cm fn. sd.

254 & 275 & 280 & 294 cm Small white flicks- v. fn. needle crystals



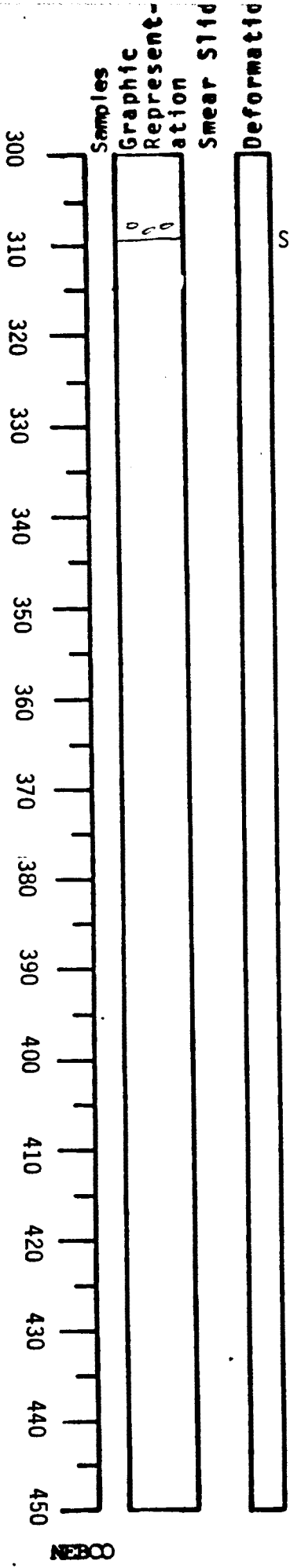
# VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.				SEC	
S	3	-	7	8	-	S	C			1	3	G	3

STATION#				OBSERVE
		1	3	Dott

Mud as above w/ shite mineral specks  
Slight mottling at base

2 part freezer boxes of core catcher (end stuck out beyond end of core) labled 1/2 & 2/2- doesn't mean they come from those sections.



# USGS STATION LOG

SHIP / LEG S3-78-SC  
 LATITUDE 36°21.51  
 LONGITUDE 123°12.49  
 STATION NO. 14  
 LINE NO. \_\_\_\_\_

DAY/MONTH/YEAR  
 DATE 31/5/78

TYPE OF STORAGE (check one)

☐ DRY ☐ COLD ☐ FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
14G	3399 m	3.8		

REMARKS:

# VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.				SEC.	
S	3	-	7	8	-	S	C			1	4	G	1

STATION#				OBSERVER
		1	4	Clifton

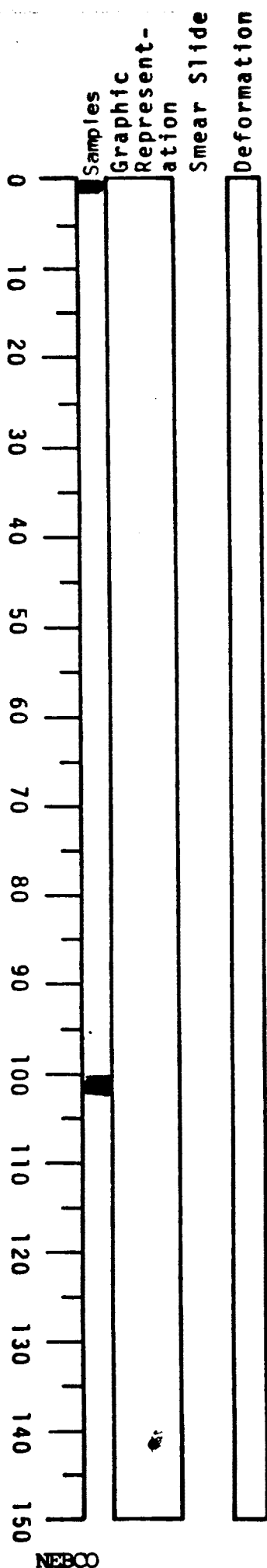
Soupy  
Holotherian feces cylindrieal globs  
in 1 cm dia.

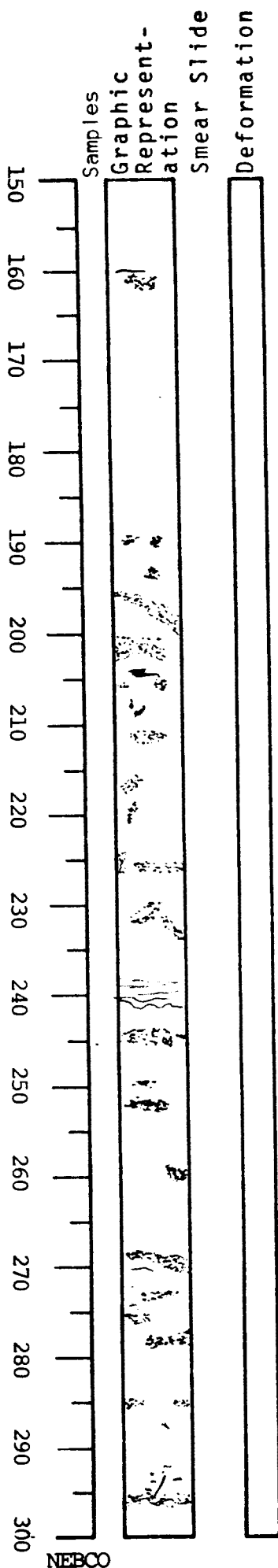
Mud, structureless (5Y4/4)

V. gradational-subtle color changes.

Mud, ± structureless (10Y4/2), dark wisps

Small pocket (burrow?) of sand; where was the source if a  
burrow fill?

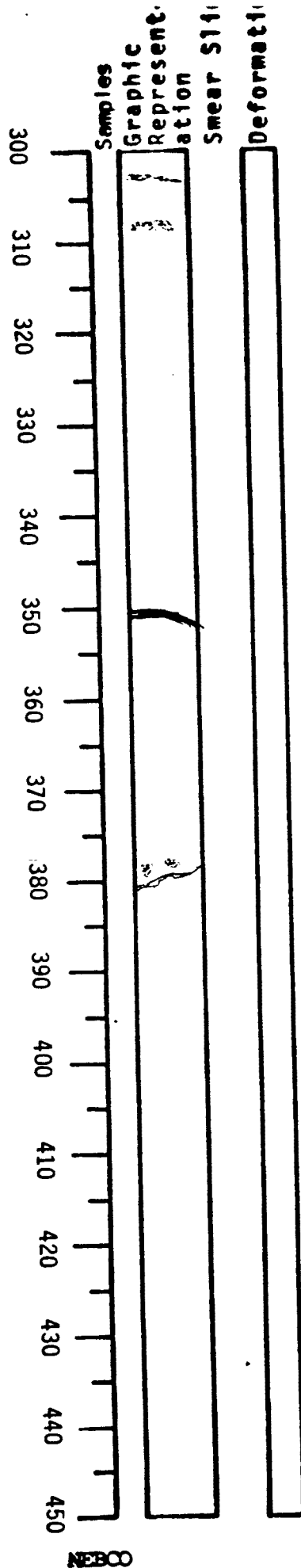




# VISUAL CORE DESCRIPTION

93

LOCATOR							SAMPLE NO.			SEC.
S	3	-	7	8	-	S C		1	4	G 3
							STATION#			OBSERVER
										Clifton



Mud mottled as in Sect. 2

Green layer 5YG2

Base of core 379-381 cm

# USGS STATION LOG

SHIP / LEG S3-78-SC  
 LATITUDE 36°23.42  
 LONGITUDE 123°20.72  
 STATION NO. 15  
 LINE NO.

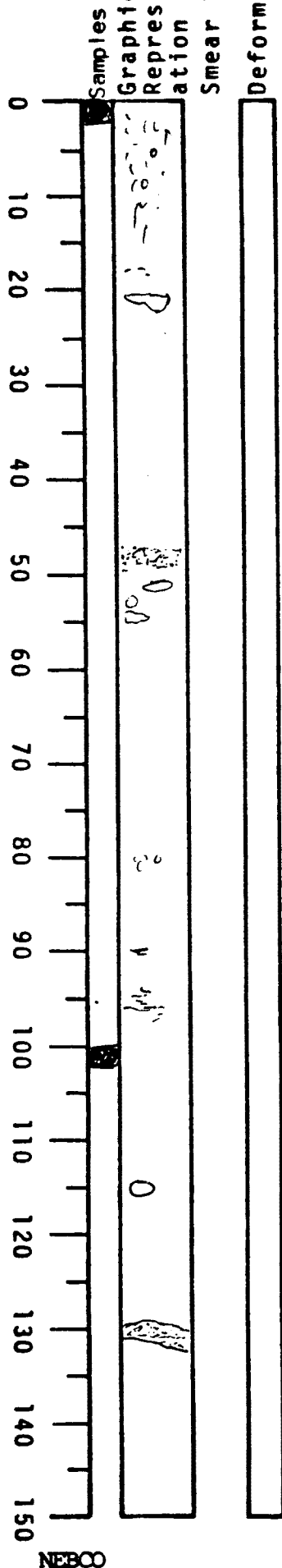
DAY/MONTH/YEAR  
 DATE 31/5/78  
 TYPE OF STORAGE (check one)  
☐ DRY ☐ COLD ☐ FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
15GA	3514	4.7 m		

REMARKS:

# VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.				SEC.			
S	3	-	7	8	-	S	C			1	5	G		1
								STATION#			OBSERVER			



Mud, gooey-holothurian feces  
5Y4/4) 0-20 cm

20 cm Gradational "organic" (10YR5/4)

20-35 cm Mud, structureless (10Y4/2)

35 cm gradational

35-47 cm Mud (10Y4/2) w/ dark streaks and lighter circular  
oval mottles (5Y5/2) 1 cm across.

47-50 cm Muddy fn. gr. snd. No structure; gradational top  
and bottoms.

50-55 cm Mottles

55-128 cm Mud (10Y4/2) structureless except for mottles  
(5Y5/2) as shown 8 dark wisps

Mottles

Dark sisps ("spriete")

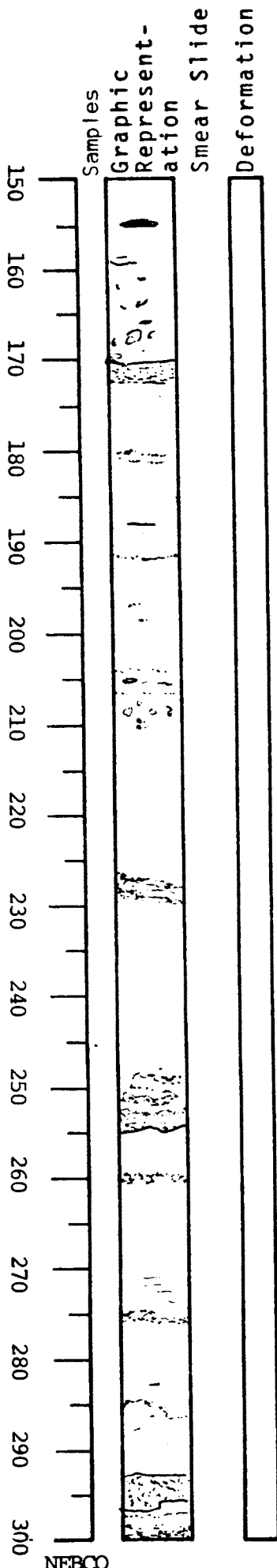
Open burrow

135-137 cm Sand fn. gr. w/ thin mud interlayered. Sharp  
top and bottom. Ungraded

137-150 cm Mud (10GY4/2), (10Y4/2?), w/ few small lighter  
mottles (5GY5/2) 0-5 cm diam. 2nd dark wisps

# VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.				SEC.		
S	3	-	7	8	-	S	C			1	5	G		2
Mud (10Y4/2), mottled GY5/2) small 5mm circu-								STATION#				OBSERVER		
										1	5	Clifton		



150-172 cm Mud (10Y4/2), mottled w/lighter (5GY5/2) small 5mm circular-oval mud blobs, md. abundance dark streak.

172-173 cm Sand fn. gr., gaint mud layer and/or mud filled burrows, sharp base; gradational top ungraded texturally

173-180 cm Mud as above

180 cm Sand wisps

180-205 cm Mud as above

192 cm Thin sand lam.

200 cm Sand filled burrows

205-207 cm Sand, fine gravel, + sharp tops and bottoms, ungraded, abundant small filled burrows ("pecker tracks") curved 1mm across, several mm long actual size.

207-230 cm Mud as above

230-232 cm Sand w/ mud interbeded (fn. gr.)

232-249 cm Mud as above

239-255 cm Sand fn. gr. w/mud inter lams, sharp base + gradational irregular sand grades to silt at very top. Mu inter lams loaded w/larger forams not present in mud above or below.

255-259 cm Mud as above

259-261 cm Sand, v. fn. gr., irreg. sharp base, rather gradational irregular top

261-275 cm Mud as above

275-276 cm Sand v. fn. gr. irreg sharp base, rather gradational irreg top.

276-287 cm Mud as above

287 cm Sand laminae

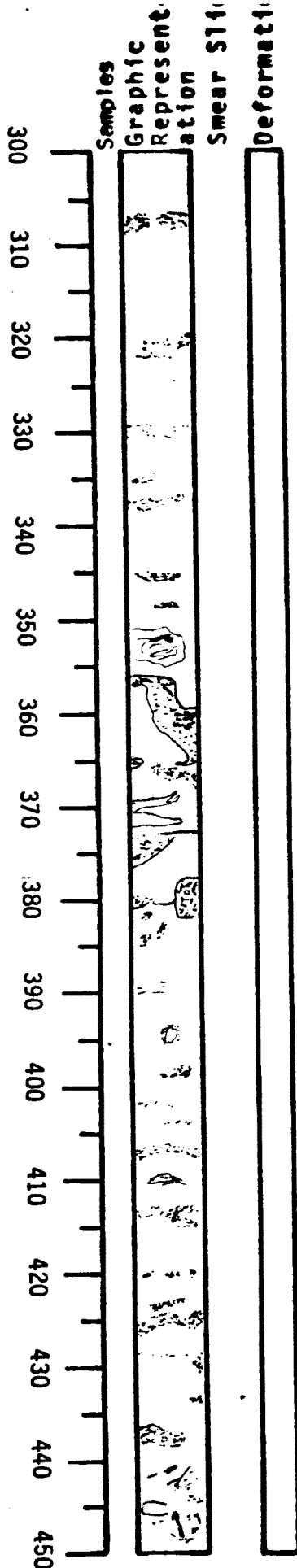
287-293 cm Sand as above

293-297 cm Sand fn. gravel ripple 1 cm w/mud flasars, bas sharp, irregular. Top sharp.



# VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.			SEC.
S	3	-	7	8	-	S C		1	5	G 3
							STATION#		OBSERVER	
								1 5	Clifton	



300-380 cm Mud (10Y4/2), mottled w/ lighter (5GY5/2) ble ovals and circular and many dark streaks (5GY4/1) Many discontinuous sand inter beds, some graded, some not Some graded at one place, sharp at others. Some have mud interbedded, some have gradation top and bottom.

Silt

Sand graded up and down into mud

Dark streaks (burrows?)

Deformed sand and mud interbeds

Sand terminates in layered mud. Not because of bioturbation.

380 cm Sharp contact separate subtle color change much lighter (5G6/1) right at top.

380-437 cm Mud mottled 5GY5/2, 5GY3/2, abundant dark streaks, some evident burrows.

410 cm greenish bleb

Brownish striak sand actually a circular brown x'ln materi probably biogenic

Sand-sharp top, bottom end edge (Foulted?)

437-450 cm Mud 5GY5/2 w/ abundant dark burrow forms.

Whole core changes down section brown-,olive to gray green

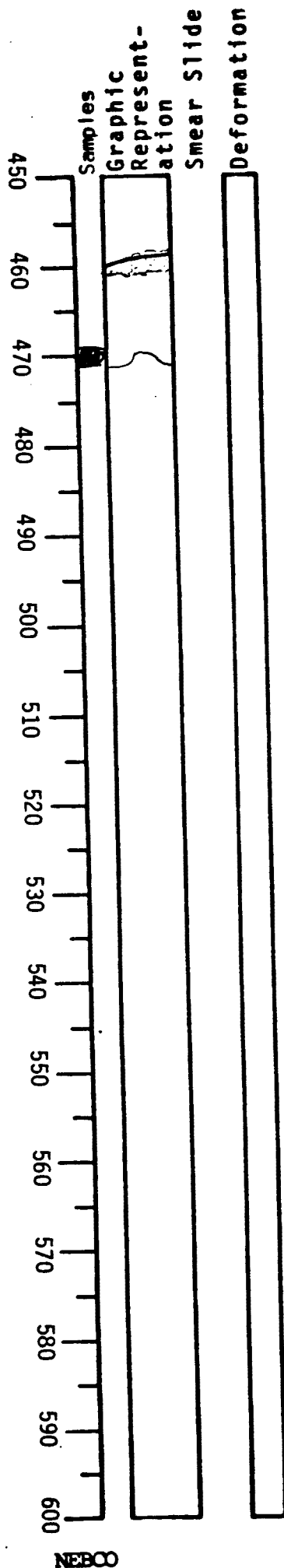
# VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.			SEC.	
S	3	-	7	8	-	S	C		1	5	G	4
								STATION#			OBSERVER	
											Clifton	

Mud mottles (5GY5/2 & 5GY3/2)

Crack  
Sand denter bed

Mud as above  
469-471 cm Base of core



# USGS STATION LOG

SHIP / LEG S3-78-SC  
 LATITUDE 36°25.25  
 LONGITUDE 123°32.75  
 STATION NO. 16  
 LINE NO.

DAY/MONTH/YEAR  
 DATE 1/6/78  
 TYPE OF STORAGE (check one)  
☐ DRY ☐ COLD ☐ FROZEN

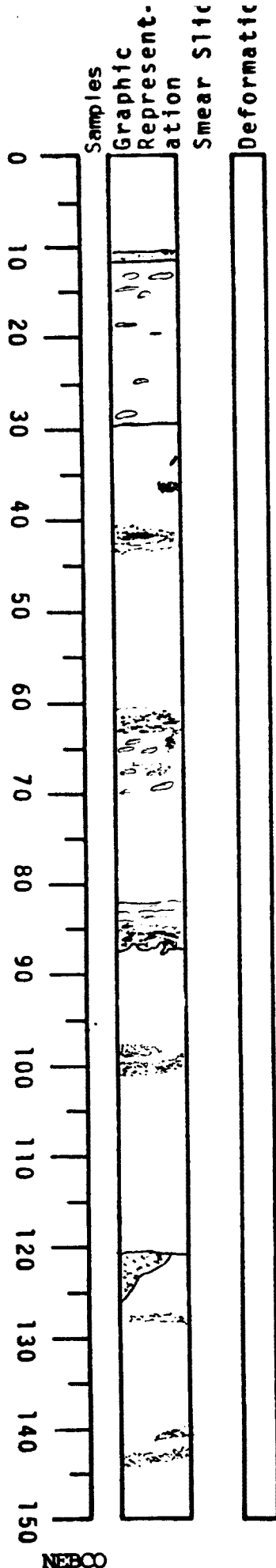
SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
16GA	3650	4.1 m		

REMARKS:

# VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
S	3	-	7	8	-	S	C			1	6	G		1
								STATION#				OBSERVER		
										1	6	Dott		

1/4 cm Mud, very gela-



0-11 cm 5Y4/4 cm Mud, very gelatinous w/ holothurian feces.

11-12 cm Wavy fn. sd. lamina

12-29 cm 5Y4/4 mud, sl. mottled (burrow?)

29-45 cm 5Y5/2 mud mud, structureless

45-47 cm Irregular v. fn. sd. w/ mud "splits"

47-60 Mud

60-63 cm Graded fn. sd. to v. fn. sd., v. micaceous

63-69 cm Burrow?-mottled mud (5Y5/2) w/ v. f. sd. "clots"

69-82 cm Mud, structureless except 2cm zone above sand has minute horiz. mottling

82-87 cm Graded fn. to v. fn. sd. w/ irregular base and thin mud wisps within it (burrow?)

97-100 cm Vf. sd. lenses; irreg. bases

121-125 cm Fn. sd. w/ irregular scoured base; v. micaceous sharp top.

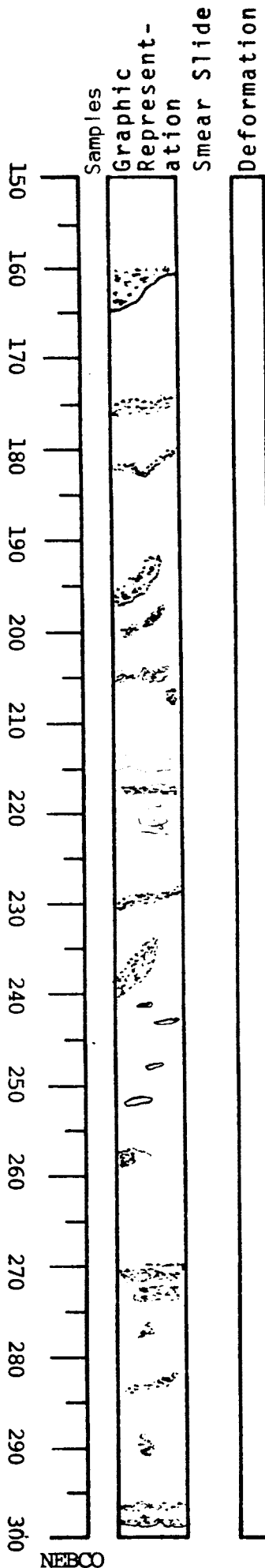
127 cm v. fn. sd. lenses.

139-143 cm V. fn. sd. lenses; "wispy"

143-145 cm Mud

# VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.			SEC.				
S	3	-	7	8	-	S	C			1	6	G		2
								STATION#			OBSERVER			
											Dott			



5Y5/2 mud, structureless  
Fn. to v. fn. sd. w/ scoured base

Same mud w/scattered v. fn. sd. blebs & lenses

Possible wavy (deferent?) lamination in mud

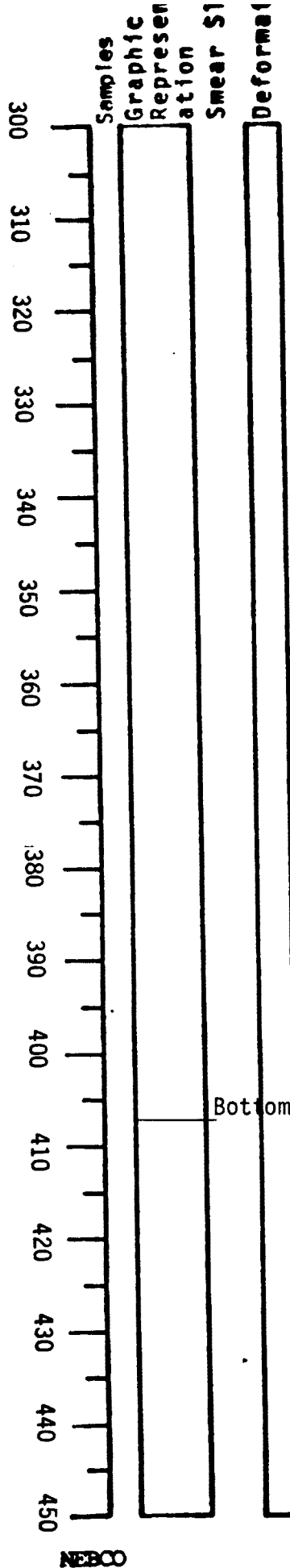
fn. sd., v. micaceous

Some faint mottling

2 sands (v. fn.) w/ irreg. bases

# VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.			SEC	
S	3	-	7	8	-	S	C		1	6	G	
								STATION#		OBSERVER		
										1	6	Dott



5Y5/2

Mud as above w/ lots of black streaks  
(organic? burrows?)

Possible faint wavy streaks?

graded fn. to v. fn. sd. w/ sharp, irreg. top and bottom

Faintly mottled mud

Bottom of core

(Also a catcher sample in pint box)